

# TABLE OF CONTENTS

CHANDLER MUNICIPAL AIRPORT
AIRPORT MASTER PLAN



# CHANDLER MUNICIPAL AIRPORT Chandler, Arizona

#### AIRPORT MASTER PLAN

#### **INTRODUCTION**

AIRPORT USERS	I-1
STUDY OBJECTIVES	<b>I-2</b>
AIRPORT ROLE	I-3
Chapter One	
INVENTORY	
A LIDDODE DELICIT ODMENIE LITOEODIA	
AIRPORT DEVELOPMENT HISTORY	
Chandler Airport Commission	
AIRPORT SETTING	1-3
AIRPORT FACILITIES	1-3
Airside Facilities	1-3
TERMINAL AREA FACILITIES	
General Aviation Terminal Building	1-8
Aircraft Parking Apron	
Aircraft Hangar Facilities	
Fixed Base And Specialty Operators	
Fuel Facilities 1-	
Utilities	
AIRSPACE AND AIR TRAFFIC CONTROL	
THE ACE AND AIR HATTIC CONTINUE 1-	.TT

## Chapter One (Continued)

Airspace Structure	1-1
Area Airports	
Air Traffic Control	
SOCIOECONOMIC CHARACTERISTICS	
Population	
Employment	
Income	
AIRPORT AREA LAND USE AND	
TRANSPORTATION CONSIDERATIONS	1-19
Transportation Network	
CLIMATE	
SUMMARY	
SUMMANT	1-4.
Chapter Two	
AVIATION DEMAND FORECASTS	
FORECASTING METHODOLOGY	. 2-2
NATIONAL AVIATION TRENDS	. 2-3
AIRPORT SERVICE AREA	. 2-6
SOCIOECONOMIC PROJECTIONS	. 2-7
Population	
Employment	
GENERAL AVIATION FORECASTS	2-10
Based Aircraft Forecasts	
Based Aircraft Fleet Mix	2-16
Annual General Aviation Operations	
MILITARY ACTIVITY	
PEAKING CHARACTERISTICS	2-21
ANNUAL INSTRUMENT APPROACHES	2-22
FORECAST SUMMARY	
Chapter Three	
FACILITY REQUIREMENTS	
FACILITI ILLIQUILLIMINIS	
AIRFIELD CAPACITY	2 1
Capacity Analysis	
Conclusions	
AIRFIELD REQUIREMENTS	
Runways	
Navigational Aids And Lighting	3-12

## Chapter Three (Continued)

LANDSIDE REQUIREMENTS  General Aviation Facilities  AVIATION SUPPORT FACILITIES  Air Traffic Control Tower (ATCT)  Airport Access And Vehicle Parking  Fuel Storage  SUMMARY  3-1  3-2
Chapter Four DEVELOPMENT ALTERNATIVES
DO-NOTHING ALTERNATIVE       4-         TRANSFER AVIATION SERVICES       4-         CONSTRUCTION OF A NEW AIRPORT SITE       4-         AIRPORT DEVELOPMENT ALTERNATIVES       4-         Airfield Alternative Considerations       4-         Airfield Alternative B       4-1         Airfield Alternative C       4-1         Airfield Alternative D       4-1         Landside Alternative Considerations       4-1         Landside Alternative B       4-1         Landside Alternative C       4-2         SUMMARY       4-2
Chapter Five AIRPORT PLANS
DESIGN STANDARDS  AIRPORT LAYOUT DRAWING  TERMINAL AREA PLAN  AIRSPACE PLAN  Approach Zones Profiles  Runway Protection Zone Plans and Profiles  ON-AIRPORT LAND USE PLAN  Airport Property Plan  5-4

#### Chapter Six FINANCIAL PLAN

AIRI	PORT DEVELOPMENT SCHEDULES
AN	D COST SUMMARIES 6-1
	hort Term Improvements 6-2
	ntermediate Term Development
	ong Range Improvements
	ITAL IMPROVEMENTS FUNDING
	ederal Aid To Airports
	AA Facilities And Equipment Program
	tate Aid To Airports
	ocal Funding
	MARY
	RKET RENT ANALYSIS
EXF	HIBITS
1A	LOCATION MAP after page 1-4
1B	EXISTING AIRPORT FACILITIES after page 1-4
1D 1C	AREA AIRSPACE after page 1-4
1D	CHANDLER MUNICIPAL AIRPORT
ענג	LAND USE PLAN after page 1-20
	LAND USE FLAN after page 1-20
2A	U.S. ACTIVE GENERAL AVIATION
	AIRCRAFT FORECASTS after page 2-6
2B	AIRCRAFT SERVICE AREA after page 2-8
2C	BASED AIRCRAFT PROJECTIONS after page 2-16
2D	ANNUAL OPERATIONS PROJECTIONS after page 2-20
	in the control of the
3 <b>A</b>	AIRPORT REFERENCE CODES after page 3-8
3B	WINDROSE after page 3-10
3C	AIRFIELD REQUIREMENTS after page 3-22
3D	LANDSIDE REQUIREMENTS after page 3-22
4.4	AIRFIELD ALTERNATIVE A
4A	
(D	1,700' NORTH - 250' SOUTH After page 4-12
4B	AIRFIELD ALTERNATIVE A
. ~	NOISE EXPOSURE CONTOURS After page 4-12
4C	AIRFIELD ALTERATIVE B
<b>(</b> D)	1,450' NORTH - 500' SOUTH After page 4-14
4D	AIRFIELD ALTERNATIVE B
	NOISE EXPOSURE CONTOURS After page 4-14

#### **EXHIBITS** (Continued)

$4\mathrm{E}$	AIRFIELD ALTERNATIVE C	
	1,450' NORTH - 250' SOUTH	After page 4-14
4F	AIRFIELD ALTERNATIVE C	4
	NOISE EXPOSURE CONTOURS	After page 4-14
4G	AIRFIELD ALTERNATIVE D	
	1,700' NORTH - 500' SOUTH	After page 4-14
4H	AIRFIELD ALTERNATIVE D	
	NOISE EXPOSURE CONTOURS	After page 4-16
4J	LANDSIDE ALTERNATIVE A	After page 4-18
4K	LANDSIDE ALTERNATIVE B	
4L	LANDSIDE ALTERATIVE C	
COZ	VER SHEET	after page 5-8
AIR	PORT LAYOUT DRAWING	after page 5-8
TEF	RMINAL AREA DRAWING	after page 5-8
PAF	RT 77 AIRSPACE DRAWING	after page 5-8
	PROACH PROFILES DRAWING	after page 5-8
	VER PORTION OF RUNWAY 4R APPROACH	
	JRFACE DRAWING	after page 5-8
INN	IER PORTION OF RUNWAY 22L APPROACH	
	JRFACE DRAWING	after page 5-8
	VER PORTION OF RUNWAY 4L-22R APPROACH	
SU	URFACE DRAWING	after page 5-8
	-AIRPORT LAND USE DRAWING	
AIR	PORT PROPERTY MAP	after page 5-8
6A	SHORT TERM PLANNING HORIZON	
	IMPROVEMENTS, FY-2000 THROUGH FY-2004	after page 6-4
6B	INTERMEDIATE TERM PLANNING HORIZON	
	IMPROVEMENTS (6 to 10 years)	after page 6-6
6C	LONG RANGE PLANNING HORIZON	
	IMPROVEMENTS (10 to 20 years)	after page 6-6